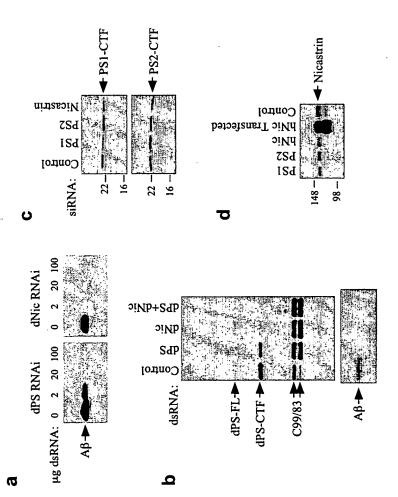
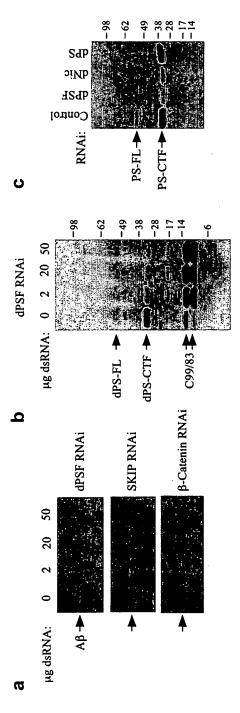


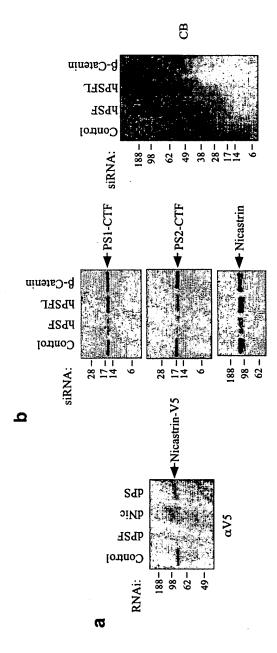
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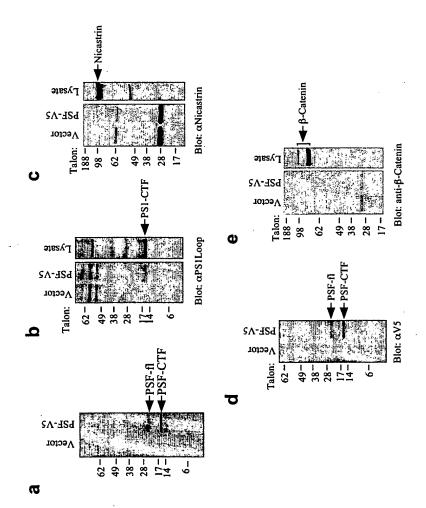


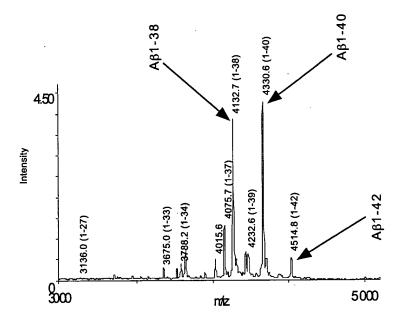
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mar va a

Brain Heart Kidney Spleen Liver Colon Lung Small Intestine Muscle Stomach Testis	en was eas contraction of PSFA contraction of PSFA contraction of PSFA	١	Salivary Thyroid Adrenal Pancreas Ovary Uterus Prostate Skin PBL Bone Marr Fetal Brain	and the properties of the pro	er e	mntal Lobe rebellum repellum repellum restantia Nigra rygdala rygdala rygdala rigamus rygdala rigamus rigamus rigamus rigamus rigamus rigamus	Cean High Management of the Ma	← Actin
A hadedecrocaditititicacracacracacracagrageccagecracaccratantaracacracacracaccrataccagram by the contractant of the contractant	Archegraceaccaccaccacacacacacacacacacacacacaca	TITLE CONTROLLE CONTROLL CONTROL CONTROLL CONTROL	TM4 5 4 1	A G G S L R S I Q R S C C W R T D Y L D * PSF (1) 351  L L C K D * PSF (2) 247  L L C	tgrgaccgttagrcrttagctttaccaggagcagcttggtcaggtca	٠ :		Lumen N C C PSF  PSFa  PSFa  PSFb





**FIG.** 7

CCCCTCCCATTTGCCTGTCCTGGTCAGGCCCCCACCCCCTTCCCACCTGACCAG CCATGGGGGCTGCGTTTTTCGGCTGCACTTTCGTCGCGTTCGGCCCGGCCTT CGCGCTTTTCTTGATCACTGTGGCTGGGGACCCGCTTCGCGTTATCATCCTGGTC GCAGGGGCATTTTTCTGGCTGGTCTCCCTGCTCCTGGCCTCTGTGGTCTGGTTCA TCTTGGTCCATGTGACCGACCGGTCAGATGCCCGGCTCCAGTACGGCCTCCTGA TTTTTGGTGCTGTCTCTGTCCTTCTACAGGAGGTGTTCCGCTTTGCCTACTA GATCACCCATCTCCATCCGCCAGATGGCCTATGTTTCTGGTCTCCCTTCGGTAT CATCAGTGGTGTCTTCTCTGTTATCAATATTTTGGCTGATGCACTTGGGCCAGGT GTGGTTGGGATCCATGGAGACTCACCCTATTACTTCCTGACTTCAGCCTTTCTGA CAGCAGCCATTATCCTGCTCCATACCTTTTGGGGAGTTGTGTTCTTTGATGCCTG TGAGAGGAGACGGTACTGGGCTTTGGGCCTGGTGGTTGGGAGTCACCTACTGAC ATCGGGACTGACATTCCTGAACCCCTGGTATGAGGCCAGCCTGCTGCCCATCTA TGCAGTCACTGTTTCCATGGGGCTCTGGGCCTTCATCACAGCTGGAGGGTCCCT CCGAAGTATTCAGCGCAGCTCTTGTGTAAGGACTGACTACCTGGACTGATCGCC TGACAGATCCCACCTGCCTGTCCACTGCCCATGACTGAGCCCAGCCCCAGCCCG GGGTCCATTGCCCACATTCTCTGTCTCCTTCTCGTCGGTCTACCCCACTACCTCC AGGGTTTTGCTTTGTCCTTTTGTGACCGTTAGTCTCTAAGCTTTACCAGGAGCAG CCTGGGTTCAGCCAGTCAGTGACTGGTGGGTTTGAATCTGCACTTATCCCCACC ACCTGGGGACCCCCTTGTTGTGTCCAGGACTCCCCCTGTGTCAGTGCTCTGCTCT CACCCTGCCCAAGACTCACCTCCCTTCCCCTCTGCAGGCCGACGGCAGGAGGAC AGTCGGGTGATGGTGTATTCTGCCCTGCGCATCCCACCCGAGGACTGAGGGAAC CTAGGGGGGACCCCTGGGCCTGGGGTGCCCTCCTGATGTCCTCGCCCTGTATTT CTCCATCTCCAGTTCTGGACAGTGCAGGTTGCCAAGAAAAGGGACCTAGTTTAG CCATTGCCCTGGAGATGAAATTAATGGAGGCTCAAGGATAGATGAGCTCTGAG TTTCTCAGTACTCCCTCAAGACTGGACATCTTGGTCTTTTTCTCAGGCCTGAGGG TGGGGGGAGGAGGAGGTATATTGGAACTCTTCTAACCTCCTTGGGCTATATTT TCTCTCCTCGAGTTGCTCCTCATGGCTGGGCTCATTTCGGTCCCTTTCTCCTTGGT CCCAGACCTTGGGGGAAAGGAAGGAAGTGCATGTTTGGGAACTGGCATTACTG GAACTAATGGTTTTAACCTCCTTAACCACCAGCATCCCTCCTCTCCCCAAGGTG AAGTGGAGGTGCTGTGGTGAGCTGCCACTCCAGAGCTGCAGTGCCACTGGA GGAGTCAGACTACCATGACATCGTAGGGAAGGAGGGGGAGATTTTTTTGTAGTTT TTAATTGGGGTGTGGGAGGGCGGGGGGGTTTTCTATAAACTGTATCATTTTCT GCTGAGGGTGGAGTGTCCCATCCTTTTAATCAAGGTGATTGTGATTTTGACTAA TAAAAAAGAATTTGTAAAAAA

# FIG. 8a

MGAAVFFGCTFVAFGPAFALFLITVAGDPLRVIILVAGAFFWLVSLLLASVVWFILV HVTDRSDARLQYGLLIFGAAVSVLLQEVFRFAYYKLLKKADEGLASLSEDGRSPISI RQMAYVSGLSFGIISGVFSVINILADALGPGVVGIHGDSPYYFLTSAFLTAAIILLHTF WGVVFFDACERRRYWALGLVVGSHLLTSGLTFLNPWYEASLLPIYAVTVSMGLW AFITAGGSLRSIQRSSCVRTDYLD

FIG. 8b

CCCCCCCATTTGCCTGTCCTGGTCAGGCCCCCACCCCCTTCCCACCTGACCAG CCATGGGGGCTGCGTTTTTCGGCTGCACTTTCGTCGCGTTCGGCCCGGCCTT CGCGCTTTTCTTGATCACTGTGGCTGGGGACCCGCTTCGCGTTATCATCCTGGTC GCAGGGGCATTTTTCTGGCTGGTCTCCCTGCTCCTGGCCTCTGTGGTCTGGTTCA TCTTGGTCCATGTGACCGACCGGTCAGATGCCCGGCTCCAGTACGGCCTCCTGA TTTTTGGTGCTGTCTCTGTCCTTCTACAGGAGGTGTTCCGCTTTGCCTACTA GATCACCCATCTCCATCCGCCAGATGGCCTATGTTTCTGGTCTCCTTCGGTAT CATCAGTGGTGTCTTCTCTGTTATCAATATTTTGGCTGATGCACTTGGGCCAGGT GTGGTTGGGATCCATGGAGACTCACCCTATTACTTCCTGACTTCAGCCTTTCTGA CAGCAGCCATTATCCTGCTCCATACCTTTTGGGGAGTTGTGTTCTTTGATGCCTG TGAGAGGAGACGGTACTGGGCTTTGGGCCTGGTGGTTGGGAGTCACCTACTGAC ATCGGGACTGACATTCCTGAACCCCTGGTATGAGGCCAGCCTGCTGCCCATCTA TGCAGTCACTGTTTCCATGGGGCTCTGGGCCTTCATCACAGCTGGAGGGTCCCT CCGAAGTATTCAGCGCAGCCTCTTGTGTAAGGACTGACTACCTGGACTGATCGC CTGACAGATCCCACCTGCCTGTCCACTGCCCATGACTGAGCCCAGCCCCAGCCC GGGTCCATTGCCCACATTCTCTGTCTCCTTCTCGTCGGTCTACCCCACTACCTCC AGGGTTTTGCTTTGTCCTTTTGTGACCGTTAGTCTCTAAGCTTTACCAGGAGCAG CCTGGGTTCAGCCAGTCAGTGACTGGTGGGTTTGAATCTGCACTTATCCCCACC ACCTGGGGACCCCCTTGTTGTGTCCAGGACTCCCCCTGTGTCAGTGCTCTGCTCT CACCCTGCCCAAGACTCACCTCCCTTCCCCTCTGCAGGCCGACGCCAGGAGGAC AGTCGGGTGATGGTGTATTCTGCCCTGCGCATCCCACCCGAGGACTGAGGGAAC CTAGGGGGACCCCTGGGCCTGGGGTGCCCTCCTGATGTCCTCGCCCTGTATTT CTCCATCTCCAGTTCTGGAC

### FIG. 9a

MGAAVFFGCTFVAFGPAFALFLITVAGDPLRVIILVAGAFFWLVSLLLASVVWFILV HVTDRSDARLQYGLLIFGAAVSVLLQEVFRFAYYKLLKKADEGLASLSEDGRSPISI RQMAYVSGLSFGIISGVFSVINILADALGPGVVGIHGDSPYYFLTSAFLTAAIILLHTF WGVVFFDACERRRYWALGLVVGSHLLTSGLTFLNPWYEASLLPIYAVTVSMGLW AFITAGGSLRSIQRSLLCKD

FIG. 9b

CCCCTCCCATTTGCCTGTCCTGGTCAGGCCCCCACCCCCTTCCCACCTGACCAG CCATGGGGGCTGCGTTTTTTCGGCTGCACTTTCGTCGCCGTTCGGCCCGGCCTT CGCGCTTTTCTTGATCACTGTGGCTGGGGACCCGCTTCGCGTTATCATCCTGGTC GCAGGGGCATTTTTCTGGCTGGTCTCCCTGCTCCTGGCCTCTGTGGTCTGGTTCA TCTTGGTCCATGTGACCGACCGGTCAGATGCCCGGCTCCAGTACGGCCTCCTGA TTTTTGGTGCTGTCTCTGTCCTTCTACAGGAGGTGTTCCGCTTTGCCTACTA GATCACCCATCTCCATCCGCCAGATGGCCTATGTTTCTGGTCTCCTTCGGTAT CATCAGTGGTGTCTTCTCTGTTATCAATATTTTGGCTGATGCACTTGGGCCAGGT GTGGTTGGGATCCATGGAGACTCACCCTATTACTTCCTGACTTCAGCCTTTCTGA CAGCAGCCATTATCCTGCTCCATACCTTTTGGGGAGTTGTTCTTTGATGCCTG TGAGAGGAGACGGTACTGGGCTTTGGGCCTGGTGGTTGGGAGTCACCTACTGAC ATCGGGACTGACATTCCTGAACCCCTGGTATGAGGCCAGCCTGCTGCCCATCTA TGCAGTCACTGTTTCCATGGGGCTCTGGGCCTTCATCACAGCTGGAGGGTCCCT CCGAAGTATTCAGCGCAGCCTCTTGTGCCGACGGCAGGAGGACAGTCGGGTGA TGGTGTATTCTGCCCTGCGCATCCCACCCGAGGACTGAGGGAACCTAGGGGGG ACCCTGGGCCTGGGGTGCCCTCCTGATGTCCTCGCCCTGTATTTCTCCATCTCC AGTTCTGGACAGTG

### FIG. 10a

MGAAVFFGCTFVAFGPAFALFLITVAGDPLRVIILVAGAFFWLVSLLLASVVWFILV HVTDRSDARLQYGLLIFGAAVSVLLQEVFRFAYYKLLKKADEGLASLSEDGRSPISI RQMAYVSGLSFGIISGVFSVINILADALGPGVVGIHGDSPYYFLTSAFLTAAIILLHTF WGVVFFDACERRRYWALGLVVGSHLLTSGLTFLNPWYEASLLPIYAVTVSMGLW AFITAGGSLRSIQRSLLCRRQEDSRVMVYSALRIPPED

**FIG. 10b** 

TTTCCGCGGTGGCCATGACTGCGGCCGTGTTCTTCGGCTGCGCCTTCATTGCCTT CGGGCCTGCGCCCTTTATGTCTTCACCATCGCCACCGAGCCGTTGCGTATC ATCTTCCTCATCGCCGGAGCTTTCTTCTGGTTGGTGTCTCTACTGATTTCGTCCCT TGTTTGGTTCATGGCAAGAGTCATTATTGACAACAAAGATGGACCAACACAGA AATATCTGCTGATCTTTGGAGCGTTTGTCTCTGTCTATATCCGAGAAATGTTCCG ATTTGCATATTATAAACTCTTAAAAAAAGCCAGTGAAGGTTTGAAGAGTATAAA CCCAGGTGAGACACCCTCTATGCGACTGCTGGCCTATGTTTCTGGCTTGGG CTTTGGAATCATGAGTGGAGTATTTTCCTTTGTGAATACCCTATCTGACTCCTTG GGGCCAGGCACAGTGGGCATTCATGGAGATTCTCCTCAATTCTTCCTTTATTCA GCTTTCATGACGCTGGTCATTATCTTGCTGCATGTATTCTGGGGCATTGTATTTT TTGATGGCTGTGAGAAAAAAGTGGGGCATCCTCCTTATCGTTCTCCTGACCC ACCTGCTGGTGTCAGCCCAGACCTTCATAAGTTCTTATTATGGAATAAACCTGG CGTCAGCATTTATAATCCTGGTGCTCATGGGCACCTGGGCATTCTTAGCTGCGG GAGGCAGCTGCCGAAGCCTGAAACTCTGCCTGCTCTGCCAAGACAAGAACTTTC TTCTTTACAACCAGCGCTCCAGATAACCTCAGGGAACCAGCACTTCCCAAACCG CAGACTACATCTTTAGAGGAAGCACAACTGTGCCTTTTTCTGAAAATCCCTTTTT **CTGGTGGAAAAAA** 

#### **FIG. 11a**

MTAAVFFGCAFIAFGPALALYVFTIATEPLRIIFLIAGAFFWLVSLLISSLVWFMARVI IDNKDGPTQKYLLIFGAFVSVYIREMFRFAYYKLLKKASEGLKSINPGETAPSMRLL AYVSGLGFGIMSGVFSFVNTLSDSLGPGTVGIHGDSPQFFLYSAFMTLVIILLHVFW GIVFFDGCEKKKWGILLIVLLTHLLVSAQTFISSYYGINLASAFIILVLMGTWAFLAA GGSCRSLKLCLLCQDKNFLLYNQRSR

**FIG. 11b** 

for the second second

CAGTAATAATACAAAGACAAGATGACGTTGCCCGAGTTCTTTGGCTGCACCTTC
ATCGCCTTCGGACCGCCCTTCGCCTTGTTCGTCTTCACCATCGCCAATGATCCAG
TGCGGATCATCATCTGATTGCGGCGGCATTCTTCTGGCTGCTTTCCCTGCTGAT
CTCTTCCCTGTGGTATGCCCTGATTCCGCTGAAGGAGTTCCTGGCATTTGGCGTG
GTCTTCTCGGTGTGCTTCCAGGAAGCCTTCCGGTACATCATCTACCGGATACTGC
GCAGCACGGAGCAGGGATTGCACGCCGTGGCGGAGGACACGCGAGTGACGGA
CAACAAGCACATCCTGGCCTATGTCTCCGGCTTGGGATTCGGCATTATATCCGG
GATGTTTGCACTGGTCAATGTGCTGGCTGATATGAGTGGTCCCGGCACCATGGG
CTTGAAGGGCGGAACTGAGCTATTCTTCGTCACCTCGGCTGCCCAGGCGTTGTC
GATTATCCTGCTGCACACCTTCTGGAGCGTTATTTTCTTCAACGCATTCGACACA
AACAACTATATCCACATAGGCTATGTGGTTTTCAGCCACCTGTTCGTCTCCCTGA
TAACTCTGCTCAATGCCAATGAGCTTTACACGACCACTCTGCTGATAAACTACT
CGCAGTTTCAGAAAAATTCATAACATGCCAGTAAAACATACTCCTAGTATTAACCGC
CT

## **FIG. 12a**

MTLPEFFGCTFIAFGPPFALFVFTIANDPVRIIILIAAAFFWLLSLLISSLWYALIPLKEF LAFGVVFSVCFQEAFRYIIYRILRSTEQGLHAVAEDTRVTDNKHILAYVSGLGFGIIS GMFALVNVLADMSGPGTMGLKGGTELFFVTSAAQALSIILLHTFWSVIFFNAFDTN NYIHIGYVVFSHLFVSLITLLNANELYTTTLLINYLVTILTGVLAFRVAGGTSRSFRKFITCO

**FIG. 12b** 

ATGGGGGCTGCGTGTTTTTCGGCTGCACTTTCGTCGCGTTCGGCCCGGCCTTCG CGCTTTCTTGATCACTGTGGCTGGGGACCCGCTTCGCGTTATCATCCTGGTCGC GGAAGGGCTGGAGGAACTGGGGCAAGCCTGGGAGCCTGAATTGGGGACGAT AAGTCGGAGGTGAAGTTTGGGCGGAGGTGAGGGGTTGGGTCTGGGAGATTTGT CCTTTCCCGCAGTTGGTTTCCACCTTCCAAGGATCTCACAGATTCCTCCTATATT CCTCCCAGCGACGTCAGAGAAGGCCCAAGGCCGAGACTCGTGAGGGGGCTGTG CTGACCTAGGCAGGCCGAGTCAGGTGCCTTAGGGGAGGATCCAGGAACGGATA CCTCGCCCTTCCGTGCTCGCACACTCTGGCTGTCATCGCTCTGAAGACTCTTTAA TTAGATTTCTCCCCTTTCCAGTGCGTTCACTTTTCTACAGATGAGTCTCTTGGTG GAGACAGTTACCCTACCTGGTCCATGTCTCCCTAACCATCCGGAAGGCTAACTT CCACTTTCAAGCAGCTTTGGCTGGTTTCCCTCCTTGATTTCTCTGGCTCCCACT AGATGCCCGGCTCCAGTACGGCCTCCTGATTTTTGGTGCTGCTGTCTCTGTCCTT GTGGTCTGGAGGGGAGAGGGCAAAGGACTGCACTATGGGAAGTGGGCAGC CCCTGGGTGCTGGTTTGGAAGAGGAGGCACTAAGGGAGGACATTAGAGGGAAA CAGATGAGGGGTTAGCATCGCTGAGTGAGGACGGAAGATCACCCATCTCCATC CGCCAGATGGCCTATGGTGAGCCAAGGGAGAGGGACTGGAGGAGGAGTTGG ACAGCCCCTCTCTAGGGAAGTCTCTAAATATCCACATGTTCTAAGTGGCTTCT TACTTTCCTTCATCCGTCACTTCCAAAGAAAGTTGGTCTGGAGGAGAGTAGAT GTGAAAGAATTGTAACCGGGAATGGGGAGGGTCAGTGGTGAACAGGCAATAG TGTGATCTCTGACATTGATGAGATCCTCCCTTCCCCCAGTTTCTGGTCTCTCCTT CGGTATCATCAGTGGTGTCTTCTCTGTTATCAATATTTTGGCTGATGCACTTGGG CCAGGTGTGGTTGGGATCCATGGAGACTCACCCTATTACTTCCTGACTTCAGGT TTTATTGGCCTTCCCTGAGAGACTTCTTTGGCTCAACATCTCAGGAGCCTGGGA GAAGATCAGGGATGTATCTCCTCCCATCTCCCTCCCTGCAGCCTTTCTGACAGC AGCCATTATCCTGCTCCATACCTTTTGGGGAGTTGTGTTCTTTGATGCCTGTGAG AGGAGACGGTACTGGGCTTTGGGCCTGGTGGTTGGGAGTCACCTACTGACATCG GGACTGGTGAGTTGGAGACAGGGGCCTGAGTTAGGGAGAAAAGCATTTAATGG TGAGTGGGATGTGGGGGAAAGGGTATCCTCACTTCTTAACATTTTTAACTTACC TGGGAGGAGGAAAGGTGAGTCTTTCAAGGTCTCTCACCTCAGCATCATTTC TATCACCTGCTCTGGGGAGGAGGTTGAAAGGATTAGTCAAACTGTAATGCAGA GGGCCTGAGGTGAGCAGGAGCGGCAGAAACCTTTGAGTTTCTGAGGAGCTGAA AATCAAAAGTCCCCTTAACCACAAGATGTTGGTGCTCTGAAGGGAAAGACTGG AGAATTTGAGAGAGATATCTGGGAGTCAGAAAGGTACAGAGAGAATATGGGGA TCCTGAACCCCTGGTATGAGGCCAGCCTGCTGCCCATCTATGCAGTCACTGTTTC CATGGGGCTCTGGGCCTTCATCACAGCTGGAGGGTCCCTCCGAAGTATTCAGCG CAGCCTCTTGTGTAAGGACTGACTACCTGGACTG

**FIG. 13** 

TTCCCTCCCTTCCCAGCTGCCCAGTCATGGGGGCTGCTGTTTTTCGGATGCA CCTTCGTCGCGTTCGGCCCAGCCTTCTCCCTTTTCCTGATCACTGTAGCTGGAGA CTCTTGGCTTCTGTGGTCTGGTTCATCTTGGTCCATGTGACAGACCGATCAGATG CACGGCTCCAGTATGGCCTCCTGATTTTTGGTGCTGCTGTCTCTGTCCTTCTACA GGAAGTGTTCCGTTTTGCTTACTACAAGCTCCTTAAGAAGGCAGATGAGGGCTT AGCATCACTGAGTGAGGACGGAAGATCACCCATCTCCATCCGACAGATGGCCT ATGTTTCTGGTCTTCGGTATCATCAGTGGTGTCTTCTCTGTTATCAATATT TTGGCTGATGCACTTGGGCCAGGTGTGGTTGGGATCCATGGAGACTCACCCTAT TACTTCCTGACTTCAGCCTTTCTGACAGCAGCCATTATCCTGCTCCACACCTTTT GGGGAGTTGTGTTCTTTGATGCCTGTGAGAGGAGACGGTACTGGGCTTTGGGCC TGGTAGTTGGGAGTCACCTTCTGACATCGGGACTGACATTCCTGAACCCCTGGT ATGAGGCTAGCCTGCCCATCTATGCAGTCACCGTTTCCATGGGGCTCTGGG CGTTCATCACAGCCGGAGGCTCCCTCCGAAGTATCCAGCGCAGCCTTTCGTGTA AGGACTGACTACCTGGACTGATCGCCCGACAGATCCCATCTGCCTATCCACTGC CCATGACTGAACCCAGCCCAGCCCGGGTCCATTGCCCTCATCCTCCGTCTCCTC GCTGATGTGCCCCGCTTCCTTCCGGGTTTGGCGTTGTCCATTTGTGACCTGTAGT CTCTAAGCTTTCTCAGGAGCAGCCTGGGTGCAGCCAGTCAGGGACTGGTGGGTT TGAATCTGCATCTCCCCACCACCTGGGGACCCCCTTGTTGTCCAGGTCTCCCC ATGTGTCAGTGCTCACCCTCACCCTGCCCATGACTCACCCGGCTTCCCCTCTGC AGGCCGCCGGCAGGAGGACAGTCGGGTGATGGTGTACTCTGCCCTGCGCATCC CACCGAGGACTGAGGGAACATGGGGGGGCCCCTGGGCCTGGGGTGCCCTCCC **GAT** 

# **FIG. 14a**

MGAAVFFGCTFVAFGPAFSLFLITVAGDPLRVIILVAGAFFWLVSLLLASVVWFILV HVTDRSDARLQYGLLIFGAAVSVLLQEVFRFAYYKLLKKADEGLASLSEDGRSPISI RQMAYVSGLSFGIISGVFSVINILADALGPGVVGIHGDSPYYFLTSAFLTAAIILLHTF WGVVFFDACERRRYWALGLVVGSHLLTSGLTFLNPWYEASLLPIYAVTVSMGLW AFITAGGSLRSIQRSLSCKD

**FIG. 14b** 

TTCCCTCCCTTCCCAGCTGCCCAGTCATGGGGGCTGCTGTTTTTCGGATGCA CCTTCGTCGCGTTCGGCCCAGCCTTCTCCCTTTTCCTGATCACTGTAGCTGGAGA CTCTTGGCTTCTGTGGTCTGGTTCATCTTGGTCCATGTGACAGACCGATCAGATG CACGGCTCCAGTATGGCCTCCTGATTTTTGGTGCTGCTGTCTCTGTCCTTCTACA GGAAGTGTTCCGTTTTGCTTACTACAAGCTCCTTAAGAAGGCAGATGAGGGCTT AGCATCACTGAGTGAGGACGGAAGATCACCCATCTCCATCCGACAGATGGCCT ATGTTTCTGGTCTTCGGTATCATCAGTGGTGTCTTCTCTGTTATCAATATT TTGGCTGATGCACTTGGGCCAGGTGTGGTTGGGATCCATGGAGACTCACCCTAT TACTTCCTGACTTCAGCCTTTCTGACAGCAGCCATTATCCTGCTCCACACCTTTT GGGGAGTTGTGTTCTTTGATGCCTGTGAGAGGAGACGGTACTGGGCTTTGGGCC TGGTAGTTGGGAGTCACCTTCTGACATCGGGACTGACATTCCTGAACCCCTGGT ATGAGGCTAGCCTGCCCATCTATGCAGTCACCGTTTCCATGGGGCTCTGGG CGTTCATCACAGCCGGAGGCTCCCTCCGAAGTATCCAGCGCAGCCTTTCGTGCC GCCGCAGGAGGACAGTCGGGTGATGGTGTACTCTGCCCTGCGCATCCCACCCG AGGACTGAGGGAACATGGGGGGGCCCCTGGGCCTGGGGTGCCCTCCCGAT

### **FIG. 15a**

MGAAVFFGCTFVAFGPAFSLFLITVAGDPLRVIILVAGAFFWLVSLLLASVVWFILV HVTDRSDARLQYGLLIFGAAVSVLLQEVFRFAYYKLLKKADEGLASLSEDGRSPISI RQMAYVSGLSFGIISGVFSVINILADALGPGVVGIHGDSPYYFLTSAFLTAAIILLHTF WGVVFFDACERRRYWALGLVVGSHLLTSGLTFLNPWYEASLLPIYAVTVSMGLW AFITAGGSLRSIQRSLSCRRQEDSRVMVYSALRIPPED

**FIG. 15b** 

MTLPVFFGCAFIAFGPAFALYLFTIATDPLRVIFLIAGAFFWLVSLLLSSMFWFLVRVI TNNRDESVQNYLLIFGALLSVCIQELFRLAYYKLLKKASEGLKSINPEEDIAPSMRLL AYVSGLGFGIMSGVFSFVNTLSNSLGPGTVGIHGDSPQFFLNSAFMTLVVIMLHVF WGVVFFDGCEKNKWYTLLTVLLTHLVVSTQTFLSPYYEVNLVTAYIIMVLMGIWA FYVAGGSCRSLKFCLLCQDKDFLLYNQRSR

**FIG. 16** 

to the second second

GGCCGGCTGCCTTTCGAAAGTCAGTTGCGTGCGAGCCGCGAGCGCGAGA TCATCAAACTGAGAAAGTCGGACTGCGACTCGAAACTGAAATTGAAACTGAAA GAGAGAATATTCAAATTGTCGTGTGTGTGGGTGCAAGCAGAGAATATATCT CAAGAATATCTGAATACAAGCTCCTGGATTTACGAGCAGCAAAACTAAGTTACC AAAGACATTTGGATTACAAGAAACCCACGCATTTTGGATTATAAACATTGCGAC AGGCAGAAAAACCTAAGAATTTCTTCAACGGCGCCAGCATGGAGAACCCAACG CAGAATGTAAACGAAACCAAGGTGGATTTGGGCCAGGAGAAGGAGAAGGAGG CGTCGCAGGAGGAGCATGCCACCGCCGTCAAGGAGACCATCATTGACATT CCCGCCGCGTGCTCCACTTCCTCCAACTCCTCGTCGTACGACACCGATTGCAGC ACGGCGAGCAGCACCTGCTGCACCCGCCAAGGCGAGCACATCTACATGCAACG CGAGGCCATCCCGGCCACGCCACTTCCGGAGTCGGAGGATATCGGCCTGCTGA AGTACGTCCACCGCCAGCACTGGCCCTGGTTCATCCTAGTGATCTCCATCATTG TACCCGTTCCGATTCCGTCGGATTCGGTGCTGGTCTATCGGCCGGACCGGCGTC TGCAGGTGTGGCGCTTCTTTAGCTACÁTGTTCCTGCACGCCAACTGGTTCCACCT GGGCTTCAATATCGTCATCCAGCTGTTCTTCGGCATTCCCCTGGAGGTGATGCA CGGCACGCCAGGATCGCCTGATCTACATGGCGGCCGTTTTTGCCGGATCCCT GGGCACCAGTGTCGTCGACTCGGAGGTCTTCCTGGTGGGCGCCAGCGGTGGCGT CTATGCCCTGTTGGCCGCACATCTGGCCAACATCACATTGAACTATGCGCACAT GAAGAGCGCATCCACGCAACTCGGATCAGTTGTCATCTTTGTCTCCTGCGATCT GGGCTATGCTCTCTACACCCAATACTTCGATGGAAGCGCCTTCGCCAAGGGTCC CCAGGTGTCGTACATTGCCCACCTGACGGGAGCCCTGGCAGGACTAACGATCG GCTTCCTGGTGCTGAAGAACTTCGGTCATCGGGAGTACGAGCAGCTCATCTGGT GGCTAGCGTTGGGCGTCTACTGTGCCTTCACCGTCTTCGCCATCGTTTTCAACCT GATCAACACGGTGACCGCCCAGCTGATGGAGGAGCAGGGTGAGGTGATTACCC AGCATCTGTTGCACGACCTGGGAGTGTCCTAAGTGTGAGGTTCGGAGTCGTCAG CATGCTCGCAGGGATTCGGAATCTGCTTGAGCTTCAGGAGAGATCGAGAGACA GAGAGTTGGTGGAAAAGAAAGTTCACTCAACGATTTAGTTCAAAACTAATTC GATATTCGTTTGGCTTTTCGTTAGCATTATCTCGTTATCGTTACCGTTTG CAAATCAAGAGAAATACACTGGACAAAAAAAAGAGCGAGGAGTGAGGAGAAC ATAAACCGAAGCCGAAACGTGTAAACAAATGTTGTGATAGAACCAAAGACTGA ATTTATTTCGCGTGTAAAAACCAAGTAAAAATCAAGAGGAAAATCAAAGAGGA GAAACAGAACTAATCGCCTCTCGCTATGATTTAAATGAACCCAATTATCCATGT TACGAATGAATCGAATCGAAGCATCAGCAAACTGTATCAAATTGTTTATACATC AGGTATAACTAGCCCTCCTAACAAATTGTTTCAAATTGTAAATACTATTAAGTC GGAAAACCACAGCAAAGAACCATTCAATTCAGATCAATTAAGCAAATCGAGTT AAATTAAATTAAATTATACTAAAGTCACTTAATGCGTTACAAAATCGAGCAAAT ATTTATCGTAATCCCTACACACACACACACACACTCGAAAGTATTACTAATT ATATTTATTTATGGTAGGGCAGCGAGGGTTTATTAATTCGTCAATTGAGCGAAC AAAAACAACAACACAAGAGAGAGAAGAAACAAACCAATTCAACTGTAAA ACATTTCAAGAATACAACAGTAATAACAAAATACAAAAA

MENPTQNVNETKVDLGQEKEKEASQEEEHATAVKETIIDIPAACSTSSNSSSYDTDC STASSTCCTRQGEHIYMQREAIPATTLPESEDIGLLKYVHRQHWPWFILVISIIEIAIFA YDRYTMPAQNFGLPVPIPSDSVLVYRPDRRLQVWRFFSYMFLHANWFHLGFNIVIQ LFFGIPLEVMHGTARIGVIYMAGVFAGSLGTSVVDSEVFLVGASGGVYALLAAHLA NITLNYAHMKSASTQLGSVVIFVSCDLGYALYTQYFDGSAFAKGPQVSYIAHLTGA LAGLTIGFLVLKNFGHREYEQLIWWLALGVYCAFTVFAIVFNLINTVTAQLMEEQG EVITQHLHDLGVS

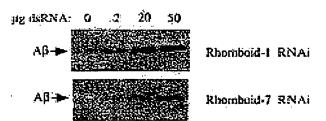
**FIG. 17b** 

CCAGAAAGCAAAATAGAAACAAATTTTCCATATTTCATGCTAAATTGGCACAGA TCCGTACTACTATGCTCATGAGTCGAGCGCTTTGCCGGAGCTGGCTACCCCAGG TGGCCGCAGATGTCATGCTAATGTGAATGTGCCAATCCTGCGGATAAACTCTG GTCATCCGGCGGCGAGGTCATGTCGGCAGATTCACAGCAACCGAAAACAGAGC AGCAACCTGAAGCCGACGACTGGGGAGCCTGCGGCAGCGGAGCAGAACACCCC GGTGCCGGTGAACAATGTGATCAAGGCGGTGGCCTTCACGGGAGCATTTACGG TCGGCTGCTTTGCGGGTGCCACCATCCTGGAGTACGAGAACACACGTAGCCTAA TCCTAGAAAAGGCTCGCCAGGCGAGATTCGGTTGGTGGCAGAGTCGTTCGCTGG CGGACAGGGATTACTGGACACAGATCAAACAAGACATCCGGCGCACTGGGAC TCACTGACACCCGGCGACAAGATGTTTGCTCCTATCTTACTCTGCAATTTGGTGG CCTTCGCCATGTGGCGGGTGCCCGCTCTGAAATCCACAATGATTACCTACTTCA CATCCAATCCAGCGGCGAAAGTCGTCTGCTGGCCCATGTTCCTGTCCACATTCA GCCATTACTCGGCTATGCACCTTTTCGCCAATATGTACGTGATGCACAGCTTTGC CAACGCTGCGGCTGTATCGTTGGGTAAAGAGCAATTCTTAGCGGTCTACCTCAG CGCCGGCGTCTTCTCCAGTCTGATGAGCGTGCTCTACAAGGCGGCCACGAGTCA GGCGGGGATGTCCCTGGGTGCGTCTGGAGCTATAATGACACTGCTGGCCTATGT ATGCACCCAGTATCCGGACACACACTTAGCATTCTCTTTCTACCCGCGTTGAC ATTCTCCGCTGGAGCTGGTATTAAAGTGCTAATGGGCATCGACTTTGCTGGCGT CGTGATGGGCTGGAAGTTCTTCGATCACGCAGCGCATTTGGGCCGCCCATGTT TGGCATCTTTTGGGCCACGTATGGGGCACAGATATGGGCAAAGCGCATTGGTCT ACTGAATTACTACCATGACCTGCGCCGGACGAAGCAGAAATAG

# **FIG. 18a**

MLMSRALCRSWLPQVARRCHANVNVPILRINSGHPAARSCRQIHSNRKQSSNLKPT TGEPAAAEQNTPVPVNNVIKAVAFTGAFTVGCFAGATILEYENTRSLILEKARQARF GWWQSRSLADRDYWTQIKQDIRRHWDSLTPGDKMFAPILLCNLVAFAMWRVPAL KSTMITYFTSNPAAKVVCWPMFLSTFSHYSAMHLFANMYVMHSFANAAAVSLGK EQFLAVYLSAGVFSSLMSVLYKAATSQAGMSLGASGAIMTLLAYVCTQYPDTQLSI LFLPALTFSAGAGIKVLMGIDFAGVVMGWKFFDHAAHLGGAMFGIFWATYGAQI WAKRIGLLNYYHDLRRTKQK

**FIG. 18b** 



**FIG. 19**